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## What is Claimed is:

- 1. A method of diagramming a network having a plurality of devices, comprising the steps of:
- a) determining a plurality of hierarchical layers for said network, wherein said devices are arranged in said hierarchical layers;
- b) determining one or more groups in each hierarchical layer, wherein each group includes at least one device;
- c) determining a first linked group having a first group from a first hierarchical layer and a first associated group having at least one group from a second hierarchical layer;
- d) forming a first cross-sectional representation corresponding to said first linked group, wherein said first cross-sectional representation has a first inner portion representing said first group and a first outer portion having one or more sections each section corresponding to a group from said first associated group; and
- e) forming a plurality of initial reduced-size cross-sectional representations each located in each section of said first cross-sectional representation, wherein each initial reduced-size cross-sectional representation is similar to said first cross-sectional representation, wherein each group from said first associated group forms one of a plurality of second linked groups each second linked group having said group from said first associated group and a second associated group having at least one group

CSCO-98061/JPH/JSG -28- CONFIDENTIAL

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from a third hierarchical layer, wherein each initial reduced-size cross-sectional representation has a reduced-size outer portion and a reduced-size inner portion, wherein each reduced-size inner portion represents said group which is from said first associated group and which is associated with said section in which said reduced-size inner portion is located, and wherein each reduced-size outer portion has one or more reduced-size sections each reduced-size section corresponding to a group from said second associated group of one of said second linked groups.

- 2. A method as recited in Claim 1 further comprising the steps of:
- f) forming a second cross-sectional representation corresponding to one of said initial reduced-size cross-sectional representations, wherein said second cross-sectional representation has a second outer portion and a second inner portion each portion configured to represent an enlarged version of said reduced-size outer portion and said reduced-size inner portion respectively of said initial reduced-size cross-sectional representation, wherein said second cross-sectional representation is similar to said first cross-sectional representation; and
- g) forming a plurality of additional reduced-size cross-sectional representations each located in each section of said second outer portion of said second cross-sectional representation, wherein each additional reduced-size cross-sectional representation is similar to said second cross-sectional representation, wherein each group from said second associated group forms one of a plurality of third linked groups each third linked group having said group from said second associated group and a third associated group having at least one group from a fourth

CSCO-98061/JPH/JSG -29- CONFIDENTIAL

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hierarchical layer, wherein each additional reduced-size cross-sectional representation has a second reduced-size outer portion and a second reduced-size inner portion, wherein each second reduced-size inner portion represents said group which is from said second associated group and which is associated with said section in which said second reduced-size inner portion is located, and wherein each second reduced-size outer portion has one or more second reduced-size sections each second reduced-size section corresponding to a group from said third associated group of one of said third linked groups.

- 3. A method as recited in Claim 2 wherein a miniature version of one of said additional reduced-size cross-sectional representations is located in each reduced-size section of each initial reduced-size cross-sectional representation.
  - 4. A method as recited in Claim 2 further comprising the steps of:
- h) forming a third cross-sectional representation corresponding to one of said additional reduced-size cross-sectional representations, wherein said third cross-sectional representation has a third outer portion and a third inner portion each portion configured to represent an enlarged version of said second reduced-size outer portion and said second reduced-size inner portion respectively of said additional reduced-size cross-sectional representation, wherein said third cross-sectional representation is similar to said second cross-sectional representation; and
- i) forming a plurality of next reduced-size cross-sectional representations each located in each section of said third outer portion of said third cross-sectional

CSCO-98061/JPH/JSG -30- CONFIDENTIAL

representation, wherein each next reduced-size cross-sectional representation is similar to said third cross-sectional representation, wherein each group from said third associated group forms one of a plurality of fourth linked groups each fourth link group having said group from said third associated group and a fourth associated group having at least one group from a fifth hierarchical layer, wherein each next reduced-size cross-sectional representation has a third reduced-size outer portion and a third reduced-size inner portion, wherein each third reduced-size inner portion represents said group which is from said third associated group and which is associated with said section in which said third reduced-size inner portion is located, and wherein each third reduced-size outer portion has one or more third reduced-size sections each third reduced-size section corresponding to a group from said fourth associated group of one of said fourth linked groups.

- 5. A method as recited in Claim 1 wherein said first cross-sectional representation and said initial reduced-size cross-sectional representations each have a circular shape.
- 6. A method as recited in Claim 1 wherein said first outer portion and said reduced-size outer portions each have a ring shape.

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- 7. A method of diagramming a network having a plurality of devices, comprising the steps of:
- a) determining a plurality of hierarchical layers for said network, wherein said devices are arranged in said hierarchical layers;
- b) determining one or more groups in each hierarchical layer, wherein each group includes at least one device; and
- c) forming a multi-layered cross-sectional diagram corresponding to said network, wherein said multi-layered cross-sectional diagram has a plurality of cross-sectional representations which are similar to each other, wherein said plurality of cross-sectional representations have a plurality of sizes, and wherein each cross-sectional representation is adapted to represent a group from a hierarchical layer and one or more other groups from another hierarchical layer.
  - 8. A method as recited in Claim 7 wherein said step c) includes:
- c1) determining a first linked group having a first group from a first hierarchical layer and a first associated group having at least one group from a second hierarchical layer;
- c2) forming a first cross-sectional representation corresponding to said first linked group, wherein said first cross-sectional representation has a first inner portion representing said first group and a first outer portion having one or more sections each section corresponding to a group from said first associated group; and
- c3) forming a plurality of initial reduced-size cross-sectional representations each located in each section of said first cross-sectional representation, wherein each

CSCO-98061/JPH/JSG -32- CONFIDENTIAL

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initial reduced-size cross-sectional representation is similar to said first cross-sectional representation, wherein each group from said first associated group forms one of a plurality of second linked groups each second linked group having said group from said first associated group and a second associated group having at least one group from a third hierarchical layer, wherein each initial reduced-size cross-sectional representation has a reduced-size outer portion and a reduced-size inner portion, wherein each reduced-size inner portion represents said group which is from said first associated group and which is associated with said section in which said reduced-size inner portion is located, and wherein each reduced-size outer portion has one or more reduced-size sections each reduced-size section corresponding to a group from said second associated group of one of said second linked groups.

- 9. A method as recited in Claim 8 wherein said step c) further comprises the steps of:
- c4) forming a second cross-sectional representation corresponding to one of said initial reduced-size cross-sectional representations, wherein said second cross-sectional representation has a second outer portion and a second inner portion each portion configured to represent an enlarged version of said reduced-size outer portion and said reduced-size inner portion respectively of said initial reduced-size cross-sectional representation, wherein said second cross-sectional representation is similar to said first cross-sectional representation; and
- c5) forming a plurality of additional reduced-size cross-sectional representations each located in each section of said second outer portion of said

CSCO-98061/JPH/JSG -33- CONFIDENTIAL

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second cross-sectional representation, wherein each additional reduced-size cross-sectional representation is similar to said second cross-sectional representation, wherein each group from said second associated group forms one of a plurality of third linked groups each third linked group having said group from said second associated group and a third associated group having at least one group from a fourth hierarchical layer, wherein each additional reduced-size cross-sectional representation has a second reduced-size outer portion and a second reduced-size inner portion, wherein each second reduced-size inner portion represents said group which is from said second associated group and which is associated with said section in which said second reduced-size inner portion is located, and wherein each second reduced-size outer portion has one or more second reduced-size sections each second reduced-size section corresponding to a group from said third associated group of one of said third linked groups.

- 10. A method as recited in Claim 9 wherein a miniature version of one of said additional reduced-size cross-sectional representations is located in each reduced-size section of each initial reduced-size cross-sectional representation.
- 11. A method as recited in Claim 9 wherein said step c) further comprises the 20 steps of:
  - c6) forming a third cross-sectional representation corresponding to one of said additional reduced-size cross-sectional representations, wherein said third cross-sectional representation has a third outer portion and a third inner portion each portion

CSCO-98061/JPH/JSG -34- CONFIDENTIAL

configured to represent an enlarged version of said second reduced-size outer portion and said second reduced-size inner portion respectively of said additional reduced-size cross-sectional representation, wherein said third cross-sectional representation is similar to said second cross-sectional representation; and

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each located in each section of said third outer portion of said third cross-sectional representation, wherein each next reduced-size cross-sectional representation, wherein each next reduced-size cross-sectional representation is similar to said third cross-sectional representation, wherein each group from said third associated group forms one of a plurality of fourth linked groups each fourth link group having said group from said third associated group and a fourth associated group having at least one group from a fifth hierarchical layer, wherein each next reduced-size cross-sectional representation has a third reduced-size outer portion and a third reduced-size inner portion, wherein each third reduced-size inner portion represents said group which is from said third associated group and which is associated with said section in which said third reduced-size inner portion is located, and wherein each third reduced-size outer portion has one or more third reduced-size sections each third reduced-size section corresponding to a group from said fourth associated group of one of said fourth linked groups.

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12. A method as recited in Claim 8 wherein said first cross-sectional representation and said initial reduced-size cross-sectional representations each have a circular shape.

CSCO-98061/JPH/JSG -35- CONFIDENTIAL

- 13. A method as recited in Claim 8 wherein said first outer portion and said reduced-size outer portions each have a ring shape.
  - 14. A computer system comprising:

5 a bus;

a processor coupled to said bus; and

a memory device coupled to said bus and having computer-executable instructions stored therein for performing a method of diagramming a network having a plurality of devices, said method comprising the steps of:

- a) determining a plurality of hierarchical layers for said network, wherein said devices are arranged in said hierarchical layers;
- b) determining one or more groups in each hierarchical layer, wherein each group includes at least one device;
- c) determining a first linked group having a first group from a first hierarchical layer and a first associated group having at least one group from a second hierarchical layer;
- d) forming a first cross-sectional representation corresponding to said first linked group, wherein said first cross-sectional representation has a first inner portion representing said first group and a first outer portion having one or more sections each section corresponding to a group from said first associated group; and
- e) forming a plurality of initial reduced-size cross-sectional representations each located in each section of said first cross-sectional representation, wherein each initial reduced-size cross-sectional representation is similar to said first cross-sectional

CSCO-98061/JPH/JSG -36- CONFIDENTIAL

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representation, wherein each group from said first associated group forms one of a plurality of second linked groups each second linked group having said group from said first associated group and a second associated group having at least one group from a third hierarchical layer, wherein each initial reduced-size cross-sectional representation has a reduced-size outer portion and a reduced-size inner portion, wherein each reduced-size inner portion represents said group which is from said first associated group and which is associated with said section in which said reduced-size inner portion is located, and wherein each reduced-size outer portion has one or more reduced-size sections each reduced-size section corresponding to a group from said second associated group of one of said second linked groups.

- 15. A computer system as recited in Claim 14 further comprising the steps of:
- f) forming a second cross-sectional representation corresponding to one of said initial reduced-size cross-sectional representations, wherein said second cross-sectional representation has a second outer portion and a second inner portion each portion configured to represent an enlarged version of said reduced-size outer portion and said reduced-size inner portion respectively of said initial reduced-size cross-sectional representation, wherein said second cross-sectional representation is similar to said first cross-sectional representation; and
- g) forming a plurality of additional reduced-size cross-sectional representations each located in each section of said second outer portion of said second cross-sectional representation, wherein each additional reduced-size cross-sectional representation is similar to said second cross-sectional representation,

CSCO-98061/JPH/JSG -37- CONFIDENTIAL

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wherein each group from said second associated group forms one of a plurality of third linked groups each third linked group having said group from said second associated group and a third associated group having at least one group from a fourth hierarchical layer, wherein each additional reduced-size cross-sectional representation has a second reduced-size outer portion and a second reduced-size inner portion, wherein each second reduced-size inner portion represents said group which is from said second associated group and which is associated with said section in which said second reduced-size inner portion is located, and wherein each second reduced-size outer portion has one or more second reduced-size sections each second reduced-size section corresponding to a group from said third associated group of one of said third linked groups.

- 16. A computer system as recited in Claim 15 wherein a miniature version of one of said additional reduced-size cross-sectional representations is located in each reduced-size section of each initial reduced-size cross-sectional representation.
  - 17. A computer system as recited in Claim 15 further comprising the steps of:
- h) forming a third cross-sectional representation corresponding to one of said additional reduced-size cross-sectional representations, wherein said third cross-sectional representation has a third outer portion and a third inner portion each portion configured to represent an enlarged version of said second reduced-size outer portion and said second reduced-size inner portion respectively of said additional reduced-

CSCO-98061/JPH/JSG -38- CONFIDENTIAL

size cross-sectional representation, wherein said third cross-sectional representation is similar to said second cross-sectional representation; and

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- i) forming a plurality of next reduced-size cross-sectional representations each located in each section of said third outer portion of said third cross-sectional representation, wherein each next reduced-size cross-sectional representation is similar to said third cross-sectional representation, wherein each group from said third associated group forms one of a plurality of fourth linked groups each fourth link group having said group from said third associated group and a fourth associated group having at least one group from a fifth hierarchical layer, wherein each next reduced-size cross-sectional representation has a third reduced-size outer portion and a third reduced-size inner portion, wherein each third reduced-size inner portion represents said group which is from said third associated group and which is associated with said section in which said third reduced-size inner portion is located, and wherein each third reduced-size outer portion has one or more third reduced-size sections each third reduced-size section corresponding to a group from said fourth associated group of one of said fourth linked groups.
- 18. A computer system as recited in Claim 14 wherein said first cross-sectional representation and said initial reduced-size cross-sectional representations each have a circular shape.
- 19. A computer system as recited in Claim 14 wherein said first outer portion and said reduced-size outer portions each have a ring shape.

CSCO-98061/JPH/JSG -39- CONFIDENTIAL

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- 20. A computer system comprising:
- a bus;
- a processor coupled to said bus; and
- a memory device coupled to said bus and having computer-executable instructions stored therein for performing a method of diagramming a network having a plurality of devices, said method comprising the steps of:
  - a) determining a plurality of hierarchical layers for said network, wherein said devices are arranged in said hierarchical layers;
  - b) determining one or more groups in each hierarchical layer, wherein each group includes at least one device; and
  - c) forming a multi-layered cross-sectional diagram corresponding to said network, wherein said multi-layered cross-sectional diagram has a plurality of cross-sectional representations which are similar to each other, wherein said plurality of cross-sectional representations have a plurality of sizes, and wherein each cross-sectional representation is adapted to represent a group from a hierarchical layer and one or more other groups from another hierarchical layer.
    - 21. A computer system as recited in Claim 20 wherein said step c) includes:
- c1) determining a first linked group having a first group from a first hierarchical layer and a first associated group having at least one group from a second hierarchical layer;

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- c2) forming a first cross-sectional representation corresponding to said first linked group, wherein said first cross-sectional representation has a first inner portion representing said first group and a first outer portion having one or more sections each section corresponding to a group from said first associated group; and
- each located in each section of said first cross-sectional representation, wherein each initial reduced-size cross-sectional representation is similar to said first cross-sectional representation, wherein each initial reduced-size cross-sectional representation is similar to said first cross-sectional representation, wherein each group from said first associated group forms one of a plurality of second linked groups each second linked group having said group from said first associated group and a second associated group having at least one group from a third hierarchical layer, wherein each initial reduced-size cross-sectional representation has a reduced-size outer portion and a reduced-size inner portion, wherein each reduced-size inner portion represents said group which is from said first associated group and which is associated with said section in which said reduced-size inner portion is located, and wherein each reduced-size outer portion has one or more reduced-size sections each reduced-size section corresponding to a group from said second associated group of one of said second linked groups.
- 22. A computer system as recited in Claim 21 wherein said step c) further comprises the steps of:
- c4) forming a second cross-sectional representation corresponding to one of said initial reduced-size cross-sectional representations, wherein said second cross-sectional representation has a second outer portion and a second inner portion each

portion configured to represent an enlarged version of said reduced-size outer portion and said reduced-size inner portion respectively of said initial reduced-size cross-sectional representation, wherein said second cross-sectional representation is similar to said first cross-sectional representation; and

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c5) forming a plurality of additional reduced-size cross-sectional representations each located in each section of said second outer portion of said second cross-sectional representation, wherein each additional reduced-size crosssectional representation is similar to said second cross-sectional representation, wherein each group from said second associated group forms one of a plurality of third linked groups each third linked group having said group from said second associated group and a third associated group having at least one group from a fourth hierarchical layer, wherein each additional reduced-size cross-sectional representation has a second reduced-size outer portion and a second reduced-size inner portion, wherein each second reduced-size inner portion represents said group which is from said second associated group and which is associated with said section in which said second reduced-size inner portion is located, and wherein each second reduced-size outer portion has one or more second reduced-size sections each second reduced-size section corresponding to a group from said third associated group of one of said third linked groups.

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23. A computer system as recited in Claim 22 wherein a miniature version of one of said additional reduced-size cross-sectional representations is located in each reduced-size section of each initial reduced-size cross-sectional representation.

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- 24. A computer system as recited in Claim 22 wherein said step c) further comprises the steps of:
- c6) forming a third cross-sectional representation corresponding to one of said additional reduced-size cross-sectional representations, wherein said third cross-sectional representation has a third outer portion and a third inner portion each portion configured to represent an enlarged version of said second reduced-size outer portion and said second reduced-size inner portion respectively of said additional reduced-size cross-sectional representation, wherein said third cross-sectional representation is similar to said second cross-sectional representation; and
- c7) forming a plurality of next reduced-size cross-sectional representations each located in each section of said third outer portion of said third cross-sectional representation, wherein each next reduced-size cross-sectional representation is similar to said third cross-sectional representation, wherein each group from said third associated group forms one of a plurality of fourth linked groups each fourth link group having said group from said third associated group and a fourth associated group having at least one group from a fifth hierarchical layer, wherein each next reduced-size cross-sectional representation has a third reduced-size outer portion and a third reduced-size inner portion, wherein each third reduced-size inner portion represents said group which is from said third associated group and which is associated with said section in which said third reduced-size inner portion is located, and wherein each third reduced-size outer portion has one or more third reduced-size sections each third

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reduced-size section corresponding to a group from said fourth associated group of one of said fourth linked groups.

- 25. A computer system as recited in Claim 21 wherein said first crosssectional representation and said initial reduced-size cross-sectional representations each have a circular shape.
  - 26. A computer system as recited in Claim 21 wherein said first outer portion and said reduced-size outer portions each have a ring shape.
  - 27. A computer-readable medium comprising computer-executable instructions stored therein for performing a method of diagramming a network having a plurality of devices, said method comprising the steps of:
  - a) determining a plurality of hierarchical layers for said network, wherein said devices are arranged in said hierarchical layers;
  - b) determining one or more groups in each hierarchical layer, wherein each group includes at least one device;
  - c) determining a first linked group having a first group from a first hierarchical layer and a first associated group having at least one group from a second hierarchical layer;
  - d) forming a first cross-sectional representation corresponding to said first linked group, wherein said first cross-sectional representation has a first inner portion

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representing said first group and a first outer portion having one or more sections each section corresponding to a group from said first associated group; and

- e) forming a plurality of initial reduced-size cross-sectional representations each located in each section of said first cross-sectional representation, wherein each initial reduced-size cross-sectional representation is similar to said first cross-sectional representation, wherein each group from said first associated group forms one of a plurality of second linked groups each second linked group having said group from said first associated group and a second associated group having at least one group from a third hierarchical layer, wherein each initial reduced-size cross-sectional representation has a reduced-size outer portion and a reduced-size inner portion, wherein each reduced-size inner portion represents said group which is from said first associated group and which is associated with said section in which said reduced-size inner portion is located, and wherein each reduced-size outer portion has one or more reduced-size sections each reduced-size section corresponding to a group from said second associated group of one of said second linked groups.
- 28. A computer-readable medium as recited in Claim 27 wherein said method further comprises the steps of:
- f) forming a second cross-sectional representation corresponding to one of said initial reduced-size cross-sectional representations, wherein said second cross-sectional representation has a second outer portion and a second inner portion each portion configured to represent an enlarged version of said reduced-size outer portion and said reduced-size inner portion respectively of said initial reduced-size cross-

CSCO-98061/JPH/JSG -45- CONFIDENTIAL

sectional representation, wherein said second cross-sectional representation is similar to said first cross-sectional representation; and

forming a plurality of additional reduced-size cross-sectional

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- forming a plurality of additional reduced-size cross-sectional q) representations each located in each section of said second outer portion of said second cross-sectional representation, wherein each additional reduced-size crosssectional representation is similar to said second cross-sectional representation, wherein each group from said second associated group forms one of a plurality of third linked groups each third linked group having said group from said second associated group and a third associated group having at least one group from a fourth hierarchical layer, wherein each additional reduced-size cross-sectional representation has a second reduced-size outer portion and a second reduced-size inner portion, wherein each second reduced-size inner portion represents said group which is from said second associated group and which is associated with said section in which said second reduced-size inner portion is located, and wherein each second reduced-size outer portion has one or more second reduced-size sections each second reduced-size section corresponding to a group from said third associated group of one of said third linked groups.
- 29. A computer-readable medium as recited in Claim 28 wherein a miniature version of one of said additional reduced-size cross-sectional representations is located in each reduced-size section of each initial reduced-size cross-sectional representation.

CSCO-98061/JPH/JSG -46- CONFIDENTIAL

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- 30. A computer-readable medium as recited in Claim 28 wherein said method further comprises the steps of:
- h) forming a third cross-sectional representation corresponding to one of said additional reduced-size cross-sectional representations, wherein said third cross-sectional representation has a third outer portion and a third inner portion each portion configured to represent an enlarged version of said second reduced-size outer portion and said second reduced-size inner portion respectively of said additional reduced-size cross-sectional representation, wherein said third cross-sectional representation is similar to said second cross-sectional representation; and
- each located in each section of said third outer portion of said third cross-sectional representation, wherein each next reduced-size cross-sectional representation is similar to said third cross-sectional representation, wherein each group from said third associated group forms one of a plurality of fourth linked groups each fourth link group having said group from said third associated group and a fourth associated group having at least one group from a fifth hierarchical layer, wherein each next reduced-size cross-sectional representation has a third reduced-size outer portion and a third reduced-size inner portion, wherein each third reduced-size inner portion represents said group which is from said third associated group and which is associated with said section in which said third reduced-size inner portion is located, and wherein each third reduced-size outer portion has one or more third reduced-size sections each third reduced-size section corresponding to a group from said fourth associated group of one of said fourth linked groups.

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31. A computer-readable medium as recited in Claim 27 wherein said first cross-sectional representation and said initial reduced-size cross-sectional representations each have a circular shape.

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- 32. A computer-readable medium as recited in Claim 27 wherein said first outer portion and said reduced-size outer portions each have a ring shape.
- 33. A system for diagramming a network having a plurality of devices, comprising:
- a) means for determining a plurality of hierarchical layers for said network,
   wherein said devices are arranged in said hierarchical layers;
- b) means for determining one or more groups in each hierarchical layer, wherein each group includes at least one device;
- c) means for determining a first linked group having a first group from a first hierarchical layer and a first associated group having at least one group from a second hierarchical layer;
- d) means for forming a first cross-sectional representation corresponding to said first linked group, wherein said first cross-sectional representation has a first inner portion representing said first group and a first outer portion having one or more sections each section corresponding to a group from said first associated group; and
- e) means for forming a plurality of initial reduced-size cross-sectional representations each located in each section of said first cross-sectional

CSCO-98061/JPH/JSG -48- CONFIDENTIAL

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representation, wherein each initial reduced-size cross-sectional representation is similar to said first cross-sectional representation, wherein each group from said first associated group forms one of a plurality of second linked groups each second linked group having said group from said first associated group and a second associated group having at least one group from a third hierarchical layer, wherein each initial reduced-size cross-sectional representation has a reduced-size outer portion and a reduced-size inner portion, wherein each reduced-size inner portion represents said group which is from said first associated group and which is associated with said section in which said reduced-size inner portion is located, and wherein each reduced-size outer portion has one or more reduced-size sections each reduced-size section corresponding to a group from said second associated group of one of said second linked groups.

- 34. A system as recited in Claim 33 further comprising:
- f) means for forming a second cross-sectional representation corresponding to one of said initial reduced-size cross-sectional representations, wherein said second cross-sectional representation has a second outer portion and a second inner portion each portion configured to represent an enlarged version of said reduced-size outer portion and said reduced-size inner portion respectively of said initial reduced-size cross-sectional representation, wherein said second cross-sectional representation is similar to said first cross-sectional representation; and
- g) means for forming a plurality of additional reduced-size cross-sectional representations each located in each section of said second outer portion of said

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second cross-sectional representation, wherein each additional reduced-size crosssectional representation is similar to said second cross-sectional representation,
wherein each group from said second associated group forms one of a plurality of third
linked groups each third linked group having said group from said second associated
group and a third associated group having at least one group from a fourth
hierarchical layer, wherein each additional reduced-size cross-sectional
representation has a second reduced-size outer portion and a second reduced-size
inner portion, wherein each second reduced-size inner portion represents said group
which is from said second associated group and which is associated with said section
in which said second reduced-size inner portion is located, and wherein each second
reduced-size outer portion has one or more second reduced-size sections each
second reduced-size section corresponding to a group from said third associated
group of one of said third linked groups.

- 35. A system as recited in Claim 34 wherein a miniature version of one of said additional reduced-size cross-sectional representations is located in each reduced-size section of each initial reduced-size cross-sectional representation.
  - 36. A system as recited in Claim 34 further comprising:
- h) means for forming a third cross-sectional representation corresponding to one of said additional reduced-size cross-sectional representations, wherein said third cross-sectional representation has a third outer portion and a third inner portion each portion configured to represent an enlarged version of said second reduced-size

CSCO-98061/JPH/JSG -50- CONFIDENTIAL

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outer portion and said second reduced-size inner portion respectively of said additional reduced-size cross-sectional representation, wherein said third crosssectional representation is similar to said second cross-sectional representation; and

- means for forming a plurality of next reduced-size cross-sectional i) representations each located in each section of said third outer portion of said third cross-sectional representation, wherein each next reduced-size cross-sectional representation is similar to said third cross-sectional representation, wherein each group from said third associated group forms one of a plurality of fourth linked groups each fourth link group having said group from said third associated group and a fourth associated group having at least one group from a fifth hierarchical layer, wherein each next reduced-size cross-sectional representation has a third reduced-size outer portion and a third reduced-size inner portion, wherein each third reduced-size inner portion represents said group which is from said third associated group and which is associated with said section in which said third reduced-size inner portion is located, and wherein each third reduced-size outer portion has one or more third reduced-size sections each third reduced-size section corresponding to a group from said fourth associated group of one of said fourth linked groups.
- A system as recited in Claim 33 wherein said first cross-sectional 37. representation and said initial reduced-size cross-sectional representations each have 20 a circular shape.

CONFIDENTIAL CSCO-98061/JPH/JSG -51-

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- 38. A system as recited in Claim 33 wherein said first outer portion and said reduced-size outer portions each have a ring shape.
- 39. A computer-readable medium comprising computer-executable instructions stored therein for performing a method of diagramming a network having a plurality of devices, said method comprising the steps of:
  - a) determining a plurality of hierarchical layers for said network, wherein said devices are arranged in said hierarchical layers;
  - b) determining one or more groups in each hierarchical layer, wherein each group includes at least one device; and
  - c) forming a multi-layered cross-sectional diagram corresponding to said network, wherein said multi-layered cross-sectional diagram has a plurality of cross-sectional representations which are similar to each other, wherein said plurality of cross-sectional representations have a plurality of sizes, and wherein each cross-sectional representation is adapted to represent a group from a hierarchical layer and one or more other groups from another hierarchical layer.
  - 40. A computer-readable medium as recited in Claim 39 wherein said step c) includes:
- 20 c1) determining a first linked group having a first group from a first hierarchical layer and a first associated group having at least one group from a second hierarchical layer;

CSCO-98061/JPH/JSG -52- CONFIDENTIAL

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- forming a first cross-sectional representation corresponding to said first c2) linked group, wherein said first cross-sectional representation has a first inner portion representing said first group and a first outer portion having one or more sections each section corresponding to a group from said first associated group; and
- forming a plurality of initial reduced-size cross-sectional representations c3) each located in each section of said first cross-sectional representation, wherein each initial reduced-size cross-sectional representation is similar to said first cross-sectional representation, wherein each group from said first associated group forms one of a plurality of second linked groups each second linked group having said group from said first associated group and a second associated group having at least one group from a third hierarchical layer, wherein each initial reduced-size cross-sectional representation has a reduced-size outer portion and a reduced-size inner portion, wherein each reduced-size inner portion represents said group which is from said first associated group and which is associated with said section in which said reduced-size inner portion is located, and wherein each reduced-size outer portion has one or more reduced-size sections each reduced-size section corresponding to a group from said second associated group of one of said second linked groups.
- A computer-readable medium as recited in Claim 40 wherein said step c) 41. further comprises the steps of:
  - forming a second cross-sectional representation corresponding to one of c4) said initial reduced-size cross-sectional representations, wherein said second crosssectional representation has a second outer portion and a second inner portion each

CONFIDENTIAL -53-CSCO-98061/JPH/JSG

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portion configured to represent an enlarged version of said reduced-size outer portion and said reduced-size inner portion respectively of said initial reduced-size cross-sectional representation, wherein said second cross-sectional representation is similar to said first cross-sectional representation; and

- forming a plurality of additional reduced-size cross-sectional c5) representations each located in each section of said second outer portion of said second cross-sectional representation, wherein each additional reduced-size crosssectional representation is similar to said second cross-sectional representation, wherein each group from said second associated group forms one of a plurality of third linked groups each third linked group having said group from said second associated group and a third associated group having at least one group from a fourth hierarchical layer, wherein each additional reduced-size cross-sectional representation has a second reduced-size outer portion and a second reduced-size inner portion, wherein each second reduced-size inner portion represents said group which is from said second associated group and which is associated with said section in which said second reduced-size inner portion is located, and wherein each second reduced-size outer portion has one or more second reduced-size sections each second reduced-size section corresponding to a group from said third associated group of one of said third linked groups.
- 42. A computer-readable medium as recited in Claim 41 wherein a miniature version of one of said additional reduced-size cross-sectional representations is

CSCO-98061/JPH/JSG -54- CONFIDENTIAL

20

located in each reduced-size section of each initial reduced-size cross-sectional representation.

- A computer-readable medium as recited in Claim 41 wherein said step c) 43. 5 further comprises the steps of:
  - forming a third cross-sectional representation corresponding to one of c6) said additional reduced-size cross-sectional representations, wherein said third crosssectional representation has a third outer portion and a third inner portion each portion configured to represent an enlarged version of said second reduced-size outer portion and said second reduced-size inner portion respectively of said additional reducedsize cross-sectional representation, wherein said third cross-sectional representation is similar to said second cross-sectional representation; and
  - forming a plurality of next reduced-size cross-sectional representations c7) each located in each section of said third outer portion of said third cross-sectional representation, wherein each next reduced-size cross-sectional representation is similar to said third cross-sectional representation, wherein each group from said third associated group forms one of a plurality of fourth linked groups each fourth link group having said group from said third associated group and a fourth associated group having at least one group from a fifth hierarchical layer, wherein each next reducedsize cross-sectional representation has a third reduced-size outer portion and a third reduced-size inner portion, wherein each third reduced-size inner portion represents said group which is from said third associated group and which is associated with said section in which said third reduced-size inner portion is located, and wherein each

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third reduced-size outer portion has one or more third reduced-size sections each third reduced-size section corresponding to a group from said fourth associated group of one of said fourth linked groups.

- 44. A computer-readable medium as recited in Claim 40 wherein said first cross-sectional representation and said initial reduced-size cross-sectional representations each have a circular shape.
  - 45. A computer-readable medium as recited in Claim 40 wherein said first outer portion and said reduced-size outer portions each have a ring shape.

CSCO-98061/JPH/JSG -56- CONFIDENTIAL